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Sheet 1 of 4

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Substitute Form PTO-1449
(Modified)U.S. Department of Commerce
Patent and Trademark OfficeAttorney's Docket No.
01948-059001Application No.
09/777,732**Information Disclosure Statement
by Applicant**

(Use several sheets if necessary)

(37 CFR §1.98(b))

Applicant

Yingyos Avihingsanon, et al.

APR 15 2002

Filing Date

February 6, 2001

Group Art Unit
1637

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U.S. Patent Documents

Examiner Initial	Desig. ID	Patent Number	Issue Date	Patentee	Class	Subclass	Filing Date If Appropriate
J.T	AA	6,187,534	Feb. 13, 2001	Strom, et al	435	6	9/24/1997

Foreign Patent Documents or Published Foreign Patent Applications

Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
	AB							

Other Documents (include Author, Title, Date, and Place of Publication)

Examiner Initial	Desig. ID	Document
J.T	AC	Abraham, et al. <i>Transfection of the human heme oxygenase gene into rabbit coronary microvessel endothelial cells: Protective effect against heme and hemoglobin toxicity.</i> Proc. Natl. Acad. Sci. USA 92:6798-6802 (July 1995).
	AD	Agarwal, et al. <i>Induction of heme oxygenase in toxic renal injury: A protective role in cisplatin nephrotoxicity in the rat.</i> Kidney International 48:1298-1307 (1995).
	AE	Agarwal, et al. <i>Gas-generating systems in acute renal allograft rejection in the rat.</i> Transplantation 61(1):93-98 (1996).
	AF	Agarwal, et al. <i>Renal response to tissue injury: Lessons from heme oxygenase-1 gene ablation and expression.</i> J. Am. Soc. Nephrol. 11:965-973 (2000).
	AG	Agodoa et al. <i>Assessment of structure and function in progressive renal disease.</i> Kidney International 52(Suppl.63):S144-S150 (1997).
	AH	Aizawa, et al. <i>Heme Oxygenase-1 is upregulated in the kidney of angiotensin II-Induced Hypertensive Rats.</i> Hypertension 35:800-806 (2000).
	AI	Almond, et al. <i>Risk Factors for Chronic Rejection in Renal Allograft Recipients.</i> Transplantation 55(4):752-757 (Apr. 1993).
	AJ	Alpert, et al. <i>The Relationship of Granzyme A and Perforin Expression to Cardiac Allograft Rejection and Dysfunction.</i> Transplantation 60(12):1478-1485 (Dec. 1995).
	AK	Amersi, et al. <i>Upregulation of heme oxygenase-1 protects genetically fat Zucker rat livers from ischemia/reperfusion injury.</i> J. Clin. Invest. 104:1631-1639 (1999).
	AL	Atkinson, et al. <i>Cytotoxic T Lymphocyte-assisted Suicide.</i> J. Biological Chemistry 273(33):21261-21266 (1998).
	AM ✓	Bach, et al. <i>Accommodation of vascularized xenografts: expression of "protective genes" by donor endothelial cells in host Th2 cytokine environment.</i> Nature Medicine 3(2):196-204 (Feb. 1997).
	AN	Bach, et al. <i>Protective genes expressed in endothelial cells: a regulatory response to injury.</i> Immunology Today, Oct. 1997.
	AO	Badrichani, et al. <i>Bcl-2 and Bcl-X_L serve an anti-inflammatory function in endothelial cells through inhibition of NF-κB.</i> J. Clin. Invest. 103(4):543-553 (1999).
	AP	Beckingham, et al. <i>Analysis of factors associated with complications following renal transplant needle core biopsy.</i> British Journal of Urology 73:13-15 (1994).
✓ J.T	AQ	Benfield, et al. <i>Safety of kidney biopsy in pediatric transplantation.</i> Transplantation 67(4):544-547 (Feb. 1999).

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Sheet 2 of 2

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Information Disclosure Statement by Applicant (Use several sheets if necessary)		Applicant Yingyos Avihingsanon, et al.	
		Filing Date February 6, 2001	Group Art Unit 1637

Other Documents (include Author, Title, Date, and Place of Publication)

Examiner Initial	Desig. ID	Document
J.T	AR	Berke. <i>Unlocking the secrets of CTL and NK cells</i> . Immunology Today 16(7):343-346 (1995).
	AS	Boise, et al. <i>bcl-x, a bcl-2-Related Gene That Functions as a Dominant Regulator of Apoptotic Cell Death</i> . Cell 74:597-608 (Aug. 1993).
	AT	Carraway, et al. <i>Expression of heme oxygenase-1 in the lung in chronic hypoxia</i> . Am J Physiol/Cell. Mol. Physiol. 278:L806-L812 (2000).
	AU	Clement, et al. <i>Perforin and Granzyme B Expression is Associated with Severe Acute Rejection</i> . Transplantation 57(3):322-326 (Feb. 1994).
	AV	Choi, et al. <i>Heme Oxygenase-1: Function, Regulation, and Implication of a Novel Stress-inducible Protein in Oxidant-induced Lung Injury</i> . Amer. J. of Respiratory Cell and Molecular Biology 15:9-19 (1996).
	AW	Colvin, et al. <i>Evaluation of Pathology Criteria for Acute Renal Allograft Rejection: Reproducibility, Sensitivity, and Clinical Correlation</i> . J. Am. Soc. Nephrol 8:1930-1941 (1997).
	AX	Cooper, et al. <i>A20 Blocks Endothelial Cell Activation through a NF-κB-dependent Mechanism</i> . Journal of Biological Chemistry 271(30):18068-18073 (1996).
	AY	Cooper, et al. <i>A20 Expression Inhibits Endothelial Cell Activation</i> . Transplantation Proceedings, Barcelona, Aug. 1996.
	AZ	DeBruyne, et al. <i>Gene Transfer of Immunomodulatory Peptides Correlates with Heme Oxygenase-1 Induction and Enhanced Allograft Survival</i> . Transplantation 69(1):120-128 (2000).
	AAA	Dong, et al. <i>Heme Oxygenase-1 in Tissue Pathology</i> . American Journal of Pathology 156(5):1485-1488 (2000).
	ABB	Ferran, et al. <i>A20 Inhibits NF-κB Activation in Endothelial Cells Without Sensitizing to Tumor Necrosis Factor-Mediated Apoptosis</i> . Blood 91(7):2249-2258 (1998).
	ACC	Gaber, et al. <i>Correlation of histology to clinical rejection reversal: A Thymoglobulin Multicenter Trial report</i> . Kidney International 55:2415-2422 (1999).
	ADD	Gulanikar, et al. <i>The incidence and impact of early rejection episodes on graft outcome in recipients of first cadaver kidney transplants</i> . Transplantation 53(2):323-328 (1992).
	AEE	Hancock, et al. <i>Antibody-induced transplant arteriosclerosis is prevented by graft expression of anti-oxidant and anti-apoptotic genes</i> . Nature Medicine 4(12): 1392-1396 (1998).
	AFF	Hariharan, et al. <i>Improved graft survival after renal transplantation in the United States, 1988 to 1996</i> . The New England Journal of Medicine 342(9):605-612 (2000).
	AGG	Henkart. <i>Lymphocyte-Mediated Cytotoxicity: Two Pathways and Multiple Effector Molecules</i> . Immunity 1:343-346 (1994).
	AHH	Heusel, et al. <i>Cytotoxic Lymphocytes Require Granzyme B for the Rapid Induction of DNA Fragmentation and Apoptosis of Allogeneic Target Cells</i> . Cell 76:977-987 (1994).
	AII	Huraib, et al. <i>Percutaneous Needle Biopsy of the Transplanted Kidney: Technique and Complications</i> . American Journal of Kidney Diseases 14(1):13-17 (1989).
	AJJ	Kagi, et al. <i>Cytotoxicity mediated by T cells and natural killer cells is greatly impaired in perforin-deficient mice</i> . Nature 369:31-37 (1994).
	AKK	Kagi, et al. <i>Molecular mechanisms of lymphocyte-mediated cytotoxicity and their role in immunological protection and pathogenesis in vivo</i> . Annu. Rev. Immunol. 14:207-232 (1996).
J.T	ALL	Krams, et al. <i>Expression of the cytotoxic T cell mediator granzyme B during liver allograft rejection</i> . Transplant Immunology 3:162-166 (1995).

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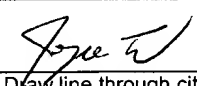
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Information Disclosure Statement by Applicant (Use several sheets if necessary)		Applicant Yingyos Avihingsanon, et al.	
		Filing Date February 6, 2001	Group Art Unit 1637

Other Documents (include Author, Title, Date, and Place of Publication)

Examiner Initial	Desig. ID	Document
IT	AMM	Lee, et al. <i>Overexpression of heme oxygenase-1 in human pulmonary epithelial cells results in cell growth arrest and increased resistance to hyperoxia.</i> Proc. Natl. Acad. Sci. USA 93:10393-10398 (1996).
	ANN	Legros-Maida, et al. <i>Granzyme B and perforin can be used as predictive markers of acute rejection in heart transplantation.</i> Eur. J. Immunol. 24:229-233 (1994).
	AOO	Lin, et al. <i>Accommodated Xenografts Survive in the Presence of Anti-Donor Antibodies and Complement That Precipitate Rejection of Naïve Xenografts.</i> Journal of Immunology 163:2850-2857 (1999).
	APP	Lindholm, et al. <i>The impact of acute rejection episodes on long-term graft function and outcome in 1347 primary renal transplants treated by 3 cyclosporine regimens.</i> Transplantation 56(2):307-315 (1993).
	AQQ	Lipman, et al. <i>Heightened Intragraft CTL Gene Expression in Acutely Rejecting Renal Allografts.</i> Journal of Immunology 152:5120-5127 (1994).
	ARR	Littell, et al. <i>SAS® System for Mixed Models.</i> SAS Institute Inc. (1996).
	ASS	Liu, et al. <i>Perforin: structure and function.</i> Immunology Today 16(4):194-201 (1995).
	ATT	Maines. <i>The Heme Oxygenase System: A regulator of second messenger gases.</i> Annu. Rev. Pharmacol. Toxicol. 37:517-554 (1997).
	AUU	Nath, et al. <i>Induction of Heme Oxygenase is a Rapid, Protective Response in Rhabdomyolysis in the Rat.</i> J. Clin. Invest. 90:267-270 (1992).
	AVV	Nath, et al. <i>The Indispensability of Heme Oxygenase-1 in Protecting against Acute Heme Protein-Induced Toxicity in Vivo.</i> American Journal of Pathology 156(5):1527-1535 (2000).
	AWW	Nicholson, et al. <i>A prospective randomized trial of three different sizes of core-cutting needle for renal transplant biopsy.</i> Kidney International 58:390-395 (2000).
	AXX	Ohta, et al. <i>Tubular Injury as a Cardinal Pathologic Feature in Human Heme Oxygenase-1 Deficiency.</i> American Journal of Kidney Diseases 35(5):863-870 (2000).
	AYY	Opipari, et al. <i>The A20 cDNA Induced by Tumor Necrosis Factor α Encodes a Novel Type of Zinc Finger Protein.</i> Journal of Biological Chemistry 265(25):14705-14708 (1990).
	AZZ	Opipari, et al. <i>The A20 Zinc Finger Protein Protects Cells from Tumor Necrosis Factor Cytotoxicity.</i> Journal of Biological Chemistry 267(18):12424-12427 (1992).
	AAAA	Otterbein, et al. <i>Carbon monoxide has anti-inflammatory effects involving the mitogen-activated protein kinase pathway.</i> Nature Medicine 6(4):422-428 (2000).
	ABBB	Racusen, et al. <i>The Banff 97 working classification of renal allograft pathology.</i> Kidney International 55:713-723 (1999).
	ACCC	Rush, et al. <i>Histological findings in early routine biopsies of stable renal allograft recipients.</i> Transplantation 57(2):208-211 (1994).
	ADDD	Rush, et al. <i>Beneficial Effects of Treatment of Early Subclinical Rejection: A Randomized Study.</i> J. Am. Soc. Nephrol. 9:2129-2134 (1998).
	AEEE	Sarma, et al. <i>Activation of the B-cell Surface Receptor CD40 Induces A20, a Novel Zinc Finger Protein That Inhibits Apoptosis.</i> Journal of Biological Chemistry 270-21:12343-12346 (1995).
IT	AFFF	Schulz, et al. <i>Acute rejection of vascular heart allografts by perforin-deficient mice.</i> Eur. J. Immunol. 25:474-480 (1995).

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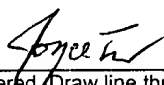
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(37 CFR §1.98(b))

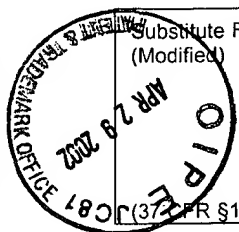
Other Documents (include Author, Title, Date, and Place of Publication)

Examiner Initial	Desig. ID	Document
J.T	AGGG	Sharma, et al. <i>Molecular Executors of Cell Death-Differential Intrarenal Expression of Fas Ligand, Fas, Granzyme B, and Perforin during acute and/or chronic rejection of human renal allografts.</i> Transplantation 62(12):1860-1866 (1996).
	AHHH	Shoskes, et al. <i>Deleterious effects of delayed graft function in cadaveric renal transplant recipients independent of acute rejection.</i> Transplantation 66(12):1697-1701 (1998).
	AIII	Smyth. <i>Dual mechanisms of lymphocyte-mediated cytotoxicity serve to control and deliver the immune response.</i> Bioessays 17(10):891-898 (1995).
	AJJJ	Smyth, et al. <i>Granzymes: exogenous proteinases that induce target cell apoptosis.</i> Immunology Today 16(4):202-206 (1995).
	AKKK	Soares, et al. <i>Expression of heme oxygenase-1 case determine cardiac xenograft survival.</i> Nature Medicine 4(9):1073-1077 (1998).
	ALLL	Sorof, et al. <i>Histopathological concordance of paired renal allograft biopsy cores.</i> Transplantation 60(11):1215-1219 (1995).
	AMMM	Strehlau, et al. <i>Quantitative detection of immune activation transcripts as a diagnostic tool in kidney transplantation.</i> Proc. Natl. Acad. Sci. USA 94:695-700 (1997).
	ANNN	Strom, et al. <i>Identity and cytotoxic capacity of cells infiltrating renal allografts.</i> New England Journal of Medicine 292(24):1257-1263 (1975).
	AOOO	Suthanthiran, et al. <i>Excellent outcome with a calcium channel blocker-supplemented immunosuppressive regimen in cadaveric renal transplantation.</i> Transplantation 55(5):1008-1013 (1993).
	APPP	Suthanthiran, et al. <i>Renal Transplantation.</i> New England Journal of Medicine 331(6):365-376 (1994).
	AQQQ	Tewari, et al. <i>Lymphoid expression and regulation of A20, and inhibitor of programmed cell death.</i> Journal of Immunology 154:1699-1706 (1995).
	ARRR	Vogt, et al. <i>Glomerular Inflammation Induces Resistance to Tubular Injury in the Rat.</i> J. Clin. Invest. 98:2139-2145 (1996).
	ASSS	Willis, et al. <i>Heme oxygenase: a novel target for the modulation of the inflammatory response.</i> Nature Medicine 2(1):87-90 (1996).
	ATTT	Yachie, et al. <i>Oxidative stress causes enhanced endothelial cell injury in human heme oxygenase-1 deficiency.</i> Journal of Clinical Investigation 103(1):129-135 (1999).
J.W	AUUU	Yoshida, et al. <i>Human heme oxygenase cDNA and induction of its mRNA by hemin.</i> Eur. J. Biochem. 171:457-461 (1988).

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01948-059001Application No.
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Applicant
Yingyos Avihigsanon et al.Filing Date
February 6, 2001Group Art Unit
1637**U.S. Patent Documents**

Examiner Initial	Desig. ID	Patent Number	Issue Date	Patentee	Class	Subclass	Filing Date If Appropriate
JT	AA	5,569,588	Oct. 29, 1996	Ashby et al	—	—	8/18/85
↓	AB	5,213,961	May 25, 1993	Bunn et al	—	—	9/31/87
	AC						MAY 03 2002
	AD						

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Foreign Patent Documents or Published Foreign Patent Applications

Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
	AE							
	AF							
	AG							

Other Documents (include Author, Title, Date, and Place of Publication)

Examiner Initial	Desig. ID	Document
JT	AH	Cassol, et al. <i>Primer-mediated Enzymatic Amplification of Cytomegalovirus (CMV) DNA</i> . J. Clin. Invest. 83:1109-1115 (Apr. 1989).
	AI	Eisen, et al. <i>Cluster analysis and display of genome-wide expression patterns</i> . Proc. Natl. Acad. Sci. USA 95:14863-14868 (1998).
	AJ	✓ Meyer-Konig, et al. <i>Human Cytomegalovirus Immediate Early and Late Transcripts in Peripheral Blood Leukocytes: Diagnostic Value in Renal Transplant Recipients</i> . Journal of Infection Diseases 171:705-709 (1995).
	AK	Lipman, et al. <i>Hightened Intragraft CTL Gene Expression in Acutely Rejecting Renal Allografts</i> . Journal of Immunology 152:1520 (1994).
	AL	Perou, et al. <i>Molecular portraits of human breast tumors</i> . Nature 406:747-752 (2000).
	AM	Ross, et al. <i>Systematic variation in gene expression patterns in human cancer cell lines</i> . Nature Genetics 24:227-235 (2000).
	AN	Rush, et al. <i>Sequential protocol biopsies in renal transplant patients</i> . Transplantation 59(4):511-514 (1995).
	AO	Rush, et al. <i>Histological findings in early routine biopsies of stable renal allograft recipients</i> . Transplantation 57(2):208-211 (1994).
JT	AP	Wright, et al. <i>The polymerase chain reaction: miracle or mirage? A critical review of its uses and limitations in diagnosis and research</i> . Journal of Pathology 162:99-117 (1990).
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